

PATENT ABSTRACTS OF JAPAN

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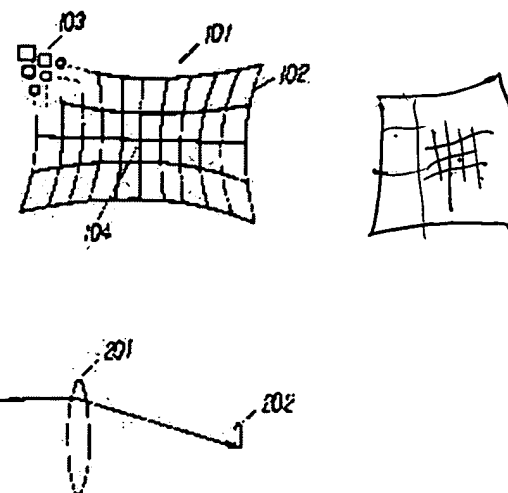
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(54) IMAGE PICKUP DEVICE

(57)Abstract:

PURPOSE: To correct distortion generating the distortion of an image among remaining the distortion by an optical system by arranging picture elements along the distortion of the image on the image pickup surface of a solid-state image pickup element.

CONSTITUTION: An incident light is converged by a lens 201 and image-formed on the image pickup surface of the image pickup element 202. At this time, the more circumferential part of a straight line image, the straight line image is getting to the more inclined curve 102 which is inclined inside. Therefore, the picture elements 103 are arranged along the curve 102 according to the distance from the center 104 of the image pickup surface by extending the interval of them and at the same rate, the areas of the respective picture elements are extended according to the distance from the center 104. The luminous intensity of the image formed on the image pickup surface 101 is converted to an electric signal by the respective picture elements 103 and the image-formed image is read in order. Therefore, the distortion in a spool state remaining in the image formed on the image pickup surface can be corrected by reading the signal along that distortion.



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